



C-2010-1888

Photo by Chris Lynch

Acting Center Director Visits Plum Brook Station

Acting Center Director Ray Lugo visited Plum Brook Station (PBS) on April 29 to talk with employees and view the final major concrete pour for the Reverberant Acoustic Test Facility (RATF) within the Space Power Facility (SPF).

"NASA Glenn [including PBS] is well postured and has a very bright future whether we do the program of record or we move on to the President's proposed program," Lugo affirmed during the All Hands meeting.

Lugo acknowledged the anxiety employees might be experiencing due to changes in exploration initiatives under the President's fiscal year 2011 budget proposal. However, he stressed the value of the PBS test facilities within the agency and with commercial customers.

"Plum Brook's capabilities lend themselves very well to performing environmental tests on any spacecraft—commercial or NASA built," he said.

Lugo said he recently met with members of the Ohio Congressional Delegation to brief them on Glenn activities, including PBS. During these meetings, the attending members expressed their support for the center and activities that will ensure a prominent and useful role in space exploration.

Pictured: Lugo, center, looks up at the area of the cement pour in the RATF

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PBS Construction Milestone Completed

NASA Glenn completed a construction milestone with the final major concrete pour for the Reverberant Acoustic Test Facility (RATF) at Plum Brook Station on April 29.

The RATF facility is an integral part of Glenn's Space Environmental Test (SET) Project that is responsible for completing test facilities to provide one-stop space environmental testing required by the Orion Project at NASA Johnson Space Center. The Space Power Facility (SPF), already the largest vacuum chamber in the world, is being augmented with new vibroacoustic capabilities, which include reverberant acoustic, mechanical vibration and modal test facilities.

The recent pour was for the RATF chamber ceiling, which is 2 feet thick, measuring 49 feet 5 inches by 41 feet 5 inches. It is composed of 135 cubic yards of 5,000-pounds-per-square-inch self-consolidating concrete, weighing about 540,000 pounds. Additionally, the ceiling is reinforced with 10,874 feet of rebar, which weigh about 22,227 pounds. The rebar is the reinforcing steel that consists of long metal rods that form the internal skeleton within the concrete.

"The combination of size and acoustic power is unprecedented among the world's known active reverberant acoustic test facilities," said Susan Motil, project

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*Ramon "Ray" Lugo
Acting Director*

Improving the Way We Do Business

In April, I had the opportunity to attend several of the outbrief sessions held during NASA Glenn's "Lean Six Sigma Blitz Week" activities. I was truly impressed and excited by what I saw and heard during Blitz Week, and wanted to share some of the Glenn success stories that are resulting from our Lean Six Sigma (LSS) program.

Over the past year and a half, Glenn has been actively using LSS tactics to improve how we do business at Glenn. Blitz Week included one 6S and four Kaizen events, which allowed staff to roll up their sleeves and address some areas that need improvement. The four Kaizen events mapped out on paper some current inefficiencies and created formalized action plans to improve workflow processes. The 6S event, which involved actual physical work—sorting, straightening, shining, standardizing, sustaining and creating a safe place to work—was conducted in the Fatigue and Structures Test Lab in building 49.

During the 6S event, building 49 employees eliminated excess inventory and unnecessary supplies and organized their workspace. When the exercise was over, they had removed three dumpsters of trash, two dumpsters of metal scrap and 540 cubic feet of equipment from the research lab. The result is a clean and organized lab that runs more efficiently—thanks to one LSS event and the employees who took the necessary action! Later this month, I will be visiting the Fatigue and Structures Test Lab employees to thank them for their efforts.

In addition to conducting LSS events, Glenn also is working to develop its own corps of Green Belt and Black Belt practitioners who can facilitate process improvement events at the center. As of May, Glenn had 30 employees certified

as Green Belts, with 19 undergoing Green Belt certification; and 5 certified as Black Belts, with 15 undergoing Black Belt certification.

By improving our workflow processes and becoming more efficient where we can, we are demonstrating our commitment to providing quality work, while spending taxpayer dollars wisely. I applaud your efforts, and look forward to hearing more LSS success stories in the coming months.

Editor's note: Photographs of the Fatigue and Structures Test Lab are featured with the LSS article on page 4.

Milestone at PBS

Continued from page 1

manager for Glenn's SET Project. The facility is under construction, with the RATF Horn Room already completed. The Horn Room will house 36 acoustic horns to simulate the high noise levels that will be experienced during a space vehicle launch.

When completed, the RATF is estimated to have a volume of 101,000 cubic feet. It will be capable of achieving an empty chamber acoustic overall sound pressure level of 163 decibels.

Completion of the entire SET Facility is expected by April 2011.

—BY KATHERINE MARTIN

Lugo Applauds PBS Employees

Continued from page 1

During a question and answer session, Lugo addressed questions regarding the upgrade and use of PBS buildings in addition to the Space Power Facility (SPF). He stressed the importance of determining what capabilities are unique at Glenn and which facilities and test capabilities align best with the center's strengths.

At the conclusion of the All Hands meeting, Lugo shared his excitement about viewing the cement pour at the RATF and thanked staff and leadership for making the project a success.



C-2010-1614

Photo by Marvin Smith

"I was totally amazed to see the difference in the SPF. It's impressive! It took a lot of hard work by a lot of people, and you all deserve a round of applause."

—BY DOREEN B. ZUDELL

Left: Lugo mingles with employees before the All Hands.



Above: The massive RATF under construction at PBS.

Propelling Glenn Forward: Our Center Directors

Klineberg Inspired Government, Industry and Academia Alliances

This is the sixth in a series of articles spotlighting NASA Glenn's center directors.

Dr. John M. Klineberg made his mark at NASA's Lewis Research Center long before he was named center director in July 1987. While serving as deputy director (1979–1985) and then acting director (1986), he helped strategize and implement institutional improvements, both facilities and personnel, to maintain our excellence in aeronautics and attract major work for the International Space Station.

Prior to joining Lewis, Klineberg served at Ames Research Center and then at NASA Headquarters as deputy associate administrator for Aeronautics and Space Technology. There he was part of the Aircraft Energy Efficiency Program to address the nation's high fuel prices. Three of the major program activities—Engine Component Improvement, Energy Efficient Engines and Advanced Turboprop (Prop-Fan)—were assigned to Lewis. During Klineberg's first year as center director, Lewis and its industry partners received the prestigious 1987 Collier Trophy in recognition of their work on the Prop-Fan engine.

"When I came to Lewis in 1979, there were the usual threats about closing the center, the Cuyahoga River had just caught fire, and the City was facing some very real economic problems," Klineberg said. "I became involved with various city groups to promote and maintain better relations between the center, the aerospace industry and the local community."

One of Klineberg's most important accomplishments was building consensus with all those entities to launch an idea that became the Ohio Aerospace Institute (OAI). Klineberg envisioned a nearby world-class institution devoted to research and graduate and continuing education beneficial to Lewis' engineers, while providing industrial assistance and technology utilization to aid state and local development. OAI became operational in the fall of 1989 and continues to flourish as a government-industry-academia alliance granting doctoral degrees in aerospace-related engineering disciplines and engaging in numerous aerospace activities.

"Today I still have the view that our nation's future depends on vigorous funding for science and engineering, just as it did when we established the [OAI] 20 years ago," Klineberg said during OAI's 20th anniversary celebration last year. "Institutes like OAI can be very effective mechanisms for combining the research programs in the federal, state and private sectors."

In 1990, Headquarters called on Klineberg to undertake another challenge to lead the Goddard Space Flight Center as their new center director. His departure was hastened by the significant task awaiting him—responsibility for the historic first servicing mission to the Hubble Space Telescope. In 1995, Klineberg retired from NASA taking with him numerous NASA medals and awards of distinction, in addition to the Presidential Rank of Distinguished Executive and Meritorious Executive.

Klineberg moved back home to California, where he continued to make significant contributions in aeronautics and space systems through private industry. From 1995 to 2003, he worked at Space Systems/Loral (SS/L) leading development and deployment of Globalstar satellite constellations (2000), which ushered in a new generation of cellular telephonic devices. He retired to care for his wife, Anne-Marie who passed

away in 2004, but returned to industry briefly in 2005, as interim CEO with Swales Aerospace in Beltsville, Md.



*Dr. Klineberg
in 1998*

Klineberg currently resides in Redwood City, Calif., where he operates his own consulting company and is a member of the U.S. Air Force Scientific Advisory Board. His three sons continue to be his greatest source of pride: Eric, a spine surgeon; Arnaud, a director of a software firm; and Logan, a self-employed computer systems specialist.

—BY S. JENISE VERIS

Mars Rover Operations Team Honored

Dr. Geoffrey Landis, Photovoltaic Power Technologies Branch, is a member of the Mars Exploration Rover Operations Team that recently received the Space Ops Award for Outstanding Achievement. The award cited "remarkable success in meeting unique and varied challenges of operating rovers [the twin rovers, Spirit and Opportunity] on Mars and establishing a model for future in-situ operations."

The International Committee on Technical Interchange for Space Mission Operations presents the award biannually to recognize teams whose exceptional contributions were critical to the success of one or more space missions.



C-2009-1444

Photo by Bridget Caswell

Klineberg giving the keynote address at OAI's 20th Anniversary celebration in 2009.



Dr. Landis with a Mars rover model.

Lean Six Sigma in Action

There's good news for employees who are looking for more efficient ways to get their work done. Since the inception of Glenn's Lean Six Sigma (LSS) program in 2009, the initiative has made great strides in adopting a systematic and strategic approach to identifying improvement opportunities throughout the center.

LSS is a structured approach to identifying and eliminating waste, while pursuing perfection in a process. During the first year of the program, Glenn's senior managers went through LSS training, and the LSS team created a Lean Six Sigma Project Office, launched the official website and conducted 14 pilot Kaizen (rapid improvement) events.

Under the leadership of the LSS program's sponsor, Center Operations Director Robyn Gordon, the LSS Project Office implemented a series of activities in 2010, including the following:

- Green Belt class (February)
- Black Belt class (March and April)
- Lean Six Sigma Day (March)
- Blitz week (April)
- Excellence Planning (ongoing)

During the Green Belt class, selected employees were trained on the fundamentals of LSS, followed by Black Belt training on advanced LSS methodologies and statistical analysis. On Lean Six Sigma Day, March 30, project team leads presented their 2009 outcomes to senior management and to their fellow employees. The LSS Project Office also organized Blitz week in April, which included four Kaizen events and one 6S event. Senior management attended each of the team out-briefs and supported the new processes developed by the LSS project teams.

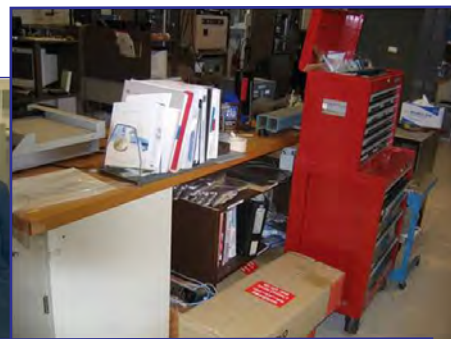
According to LSS Project Manager Samira Andaleeb Anwar, Booz Allen/Human Capital Development Branch, 2010 also marks the first year that Glenn is undergoing the "Excellence Planning" process. As a part of this process, each Directorate submitted LSS ideas, which were linked to individual business goals and strategies. After each project idea is vetted, prioritized and scheduled, the LSS Project Office will work with



Above: The Fatigue and Structures Test Laboratory conducted Glenn's first 6S event. The team: left to right, Justin Bail (team lead), Pete Bonacuse, Bill Brown, Chris Burke, Brad Lerch (sponsor) and John Zima, eliminated excess inventory and unnecessary supplies by using the LSS system.

sponsors, champions and team leads to draft charters and execute the project ideas.

"Thanks to the support of Glenn's leadership team as well as the hard work of Glenn employees, the LSS Program is off to a great start!" affirmed Gordon. "The Project Office welcomes your feedback and looks forward to working with you to continue the momentum and implement value-added solutions across the center."



The laboratory before (top) and after the 6S event.

For questions about the LSS program, or if there are any processes within your organizations that could benefit from a "rapid improvement" event, feel free to contact Tom Spicer or Samira Andaleeb Anwar or visit <http://www.grc.nasa.gov/WWW/HCDB/lss/html>.

Meet Glenn's Emergency Management Specialists

Glenn's new Emergency Management Specialists Seth Harbaugh and Jeffrey Scott are the center's incident commanders. When an emergency occurs at Lewis Field, this team is dispatched to the incident location to evaluate and coordinate the internal and external response teams that will address the specific emergency.



Harbaugh



Scott

Additionally, Harbaugh and Scott evaluate, revise, update and test Glenn's emergency plans, including the center's Emergency Preparedness Plan, Emergency Response Guide, Continuity of Operations Plan and emergency evacuation plans.

"In an emergency, we're here to offer effective and efficient management of an incident scene that ensures the safety of all involved," Harbaugh said.

Harbaugh comes to Glenn after an impressive career in emergency management for the U.S. Coast Guard. Scott is a veteran public safety officer (police, fire and Emergency Medical Services (EMS) and specializes in emergency response management, incident command and hazardous materials.

If there is an immediate threat of life or property at the center, employees should dial 911 (onsite) or 216-433-8888 (cell phone). Nonemergency calls should be directed to 3-4948 (FIX IT).

—BY DOREEN B. ZUDELL

Center Focuses on Health and Safety

Safety Stand-Down/Safety Awareness

NASA Glenn held a centerwide Safety Stand-Down/Safety Awareness Day on May 20. The event included dynamic speakers, demonstrations and dialogue sessions aimed at safety awareness, empowering employees to be safe and recognize that "Safety Starts With You." An awards luncheon and safety vendor fair rounded out the activities. Employee representatives from across the directorates worked with a core planning team to ensure that employees received the necessary training and resources. The Safety and Mission Assurance Directorate sponsored the event.

C-2010-2181



Photo by Bridget Caswell



C-2010-2186

Photo by Bridget Caswell



C-2010-2204

Photo by Bridget Caswell



Photo by Eli Abumeri



C-2010-2217

Photo by Bridget Caswell

Clockwise, far left: The Community and Media Relations Office holds their dialogue session. • Tom Palisin assists keynote speaker John Drebinger with a magic trick to illustrate safety distractions. • Employees proceed into the Hangar for a kickoff breakfast and program. • Employees check out one of many safety fair vendors. • Two Golden Shoes for the highest participation in the Employee Step Out were awarded. Pictured is Safety and Mission Assurance Director Tom Hartline presenting the award to Avis Hudson-Burnette, Office of Equal Opportunity Programs, for the highest participation of an office (63 percent). The Safety and Mission Assurance Directorate won the award for the highest participation of a directorate (71 percent).

Employee Step Out and Health Fair

The center held its annual Employee Step Out, which included a health fair, on May 19. Employees celebrated healthy living by stepping out on the 1.4-mile Taylor-Walcott loop. After the walk, they enjoyed refreshments while talking with health and wellness vendors in the Employee Center. Chair massages, blood pressure, cholesterol and glucose screenings and educational displays were some of the featured services. The Glenn directorate and office with the highest participation percentage for walking were awarded the annual Golden Shoe during the Safety Stand-Down the following day. The event was sponsored by Singleton Health Services.



Photos by Eli Abumeri



Clockwise, from bottom left: Employees walked the 1.4 mile loop. • Some vendors offered healthy food samplings. • A local chiropractor was one of several health care vendors. • Singleton Health Services employees banded out fruit at the finish line.

Six at Glenn Earn FEB Wings of Excellence

The Cleveland Federal Executive Board (FEB) honored six Glenn employees with a Wings of Excellence Award during the Federal Employees Recognition and Awards Program Luncheon, May 7. Nominees from federal agencies across the Cleveland area were selected for outstanding service, loyalty and dedication to the public.

Joseph Connolly, Communications, Instrumentation and Controls Division, for contributions to NASA's aeronautics research in developing a dynamic engine simulation for supersonic aircraft as well as a modeling/simulation of faults for the thrust vector control of the Ares I Upper Stage system. Connolly is active in educational outreach for Native American Indian youth and Glenn's diversity programs.

Glenn Feldhake, Space Operations Project Office, for filing and coordination of radio frequencies for all NASA space-based communications and sensing instruments with foreign operations of 160 nations and as NASA's representative to U.S. delegations negotiating international regulatory proposals at the Inter-American Telecommunication Commission. He also educates the public on wild-life and, in particular, hippopotamus.

Luz Jeziorowski, Safety, Health and Environmental Division, for her leadership in guiding improvements for safer workplace, including Glenn's Indoor Air Quality program and the Pandemic Program, which she coordinates with local authorities to ensure support for Glenn employees and its mission should a pandemic event occur.

Robert Overy, Avionics & Electrical Systems Division, for serving as a role model and mentor to student interns and shadowing students in the workplace as well as at Camp Aerospace, a 1-day, hands-on field trip that he, with his 2009 FIRST Leadership team, created for middle school students visiting NASA's Plum Brook Station.

Tonyia Williams, Institutional Resources Analysis Division, for innovative solutions to resource issues and support as a budget analyst in the workplace. She also volunteers her skills as the finan-

cial consultant to Board of Trustees of Lewis Little Folks, treasurer at her church and consultant for free tax advice/preparation seminars at various community venues.

Barbara Wilson, IT Operations Office, for workplace excellence as an IT specialist dramatically improving the center's new employee clearance process for IT accounts and equipment. Wilson also served as a foster parent for two children.



Photo courtesy of FEB

Glenn award recipients and nominating managers with FEB Executive Director Michael Goin. Seated, left to right: Connolly, Jeziorowski, Wilson, Williams and Overy. Standing, left to right, Dr. Sasi Pillay, chief information officer; Vernon Wessel, associate director; John Taylor, chief of Avionics & Electrical Systems Division, and Goin. Not pictured: Glenn Feldhake.

People

Lee Mason, Thermal Energy Conversion Branch, received a mid-career 2010 Stellar Award during the Rotary National Award for Space Achievement banquet, April 30. Stella Awards recognize individual and team winners for their accomplishments. Mason was recognized for outstanding leadership and technical contributions leading a multi-agency technical team in developing power system technology and components resulting in an affordable space nuclear power system for NASA's Fission Surface Power Project for future visits to lunar and Martian surfaces.



Mason



Flaisig

Rick Flaisig has been selected chief of the Logistics and Technical Information Division (LTID). Flaisig previously served as the COTR for the TIALS contract and as acting deputy chief for LTID. He brings an in-depth knowledge of the organization's mission, functions and disciplines to the position. As a former QASAR recipient, he will continue to lead process improvement efforts to deliver excellence to the Glenn community.

Xynique Sims has been selected administrative officer for the Center Operations Directorate. Sims is the directorate's principle administrative expert and liaison for all human resources services. She also manages Glenn's Exchange Operations and serves as the contracting officers' technical representative (COTR) for the Acorn food service contract. Sims previously served as a human resources specialist in the Office of Human Capital Management.



Sims

LaSalvia Accepts NES Pilot Commendation

The Center for Excellence in Education (CEE), McLean, Va., cited NASA's Explorer Schools (NES) Pilot as an exemplary model of Science, Technology, Engineering, and Math (STEM) education design during the first-ever National Lab Skills Symposium in April at the Holiday Inn Capitol Hill, Washington, DC.

The symposium convened to address the challenges of effectively incorporating laboratory experiences into STEM education to maintain the nation's future technological workforce.

NES Pilot Project Manager Rob LaSalvia, Educational Programs Office, provided highlights on the NES Pilot and accepted the CEE commendation during the symposium.

The NES Pilot is NASA's "classroom-based gateway" for middle and high school students to gain a sense of relevance through real-world NASA activities and missions linked to STEM classroom topics. Teachers have access to support materials and technology, as well as live interaction (via webcasts and online conversations) with subject-matter experts responsible for NASA's most innovative research and scientific discoveries.

The CEE and other STEM stakeholders will examine aspects of the NES Pilot program (along with six other programs) to determine what areas can be incorporated into a "best practice model" for teachers nationwide.

"This is truly an honor and special thanks and congratulations to Rob and his team for their dedicated efforts and unending contributions to transforming the new NES project," said Jo Ann Charleston, chief of Glenn's Educational Programs Office.



LaSalvia

In Memory



Duncan

Reginald H. Duncan, 65, who retired in 2003 with 30 years of federal service, died March 20. During his 24-year career with NASA, Duncan served as an environmental protection specialist. He was

a member of the Environmental Health Team that earned two NASA Group Achievement Awards, including the Asbestos Removal-Variable Frequency Area (1988) and Chemical Sampling and Analysis Office Team (1991). Duncan was a decorated veteran of the Vietnam War serving with the U.S. Army's 1st Battalion (Mechanized) 5th Infantry, achieving the rank of staff sergeant and earning a Purple Heart and the Bronze Star Valor.

John R. "Jack" MacLean, 79, who retired in 1982 with 32 years of NASA service, died March 21. MacLean began his NASA career in 1950 and graduated from the Apprentice Program in 1958 as an electrician. Prior to retiring, he served as a building manager in the Facilities Operations and Maintenance Division. MacLean was a former treasurer of the center's Supervisors Club. He returned to support the center as contractor from 1982-1989.



Minor

Willie Minor, 78, who retired in 1996 with 33 years of NASA service, died April 17. Minor retired from the Wind Tunnels and Aircraft Components Branch where he served as a research laboratory mechanic. He earned a 1988 Group Achievement Award as a member of the 10-by 10-foot Supersonic Wind Tunnel Team that participated in the Quality Circle Pilot. The pilot sought input from employees to develop their own problem-solving ideas aimed at increasing productivity.

Charlotte (Willson) Schuerger, 88, who retired in 1951, died Dec. 24, 2009. Wilson was a NACA "computer" in the Materials and Stressed Division. She was married to Raymond Schuerger (now deceased) of the Mechanical Services Division.

Calendar

IFPTE LOCAL 28, LESA MEETING: LESA will hold its next membership meeting on Wednesday, July 7 at noon in the Small Dining Room of the Employee Center, building 15.

GLENN PUBLIC TOURS: Glenn invites the general public to tour its

laboratory and testing facilities on the first and third Saturday of each month this summer. Tours are free to all ages and available to U.S. citizens and foreign national students in grades K-12. A NASA bus will start the tours from Glenn's Briefing Center at 10:30 a.m., and run every hour with the last tour departing at 1:30 p.m. The July tours include: July 10—Icing Research Tunnel and July 24—Zero Gravity Research Facility. For further information and list of all the tours, or to reserve a spot, call 216-433-9653, or visit <http://visit.grc.nasa.gov>.

RETIREES REUNION: A group of NASA retirees are planning a reunion at the Gardens At Westlake on Friday, Aug. 20, from 7 to 9 p.m. Come and enjoy the music, hors d'oeuvres and fellowship. For reservations, contact Lou Chelko, 440-871-5821.

DEADLINES

News items and brief announcements for publication in the July issue is noon, June 18. Larger articles require at least 1 month notice.

<http://aerospacefrontiers.grc.nasa.gov>



Hermes Award



AWARDS FOR PUBLICATION EXCELLENCE

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Join NASA Glenn Outreach on the Road

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Would you like to extend the confines of your workspace this summer? NASA Glenn's Community and Media Relations Office (CMRO) can help broaden your horizons.

The Community Relations team conducts an ambitious outreach program and is looking for employees and retirees who can share the NASA story with the public at air shows, festivals, museums and other venues locally and out of state. Events typically have an exhibit comprising artifacts, models and interactive workstations with a storyboard backdrop that provides pictorial representations of NASA's role in the history and future of exploration in air and space.

You can be a part of this outreach by answering questions, conducting demonstrations or describing artifacts. Depending on your knowledge and interest, you will be assigned to work in

a specific area of your choosing or you can help out in a general information booth. CMRO is looking for civil servant and support service contract employees with varying degrees of knowledge—so you don't have to be a rocket scientist to participate and make contributions. They also provide resources so you can brush up on the latest NASA programs.

"As the public visits the NASA exhibits, the most significant part of their experience is typically their personal interaction with NASA staff," said Community Relations Team Lead David DeFelice. "So employees who engage the public as they explore the exhibit areas are vital to the success of our outreach activities."

Nancy Rabel Hall, ISS and Human Research Project Office, is one of many employees who sees outreach as a way of giving back to the taxpayers who support NASA. "I like informing people about the work we do here, and how it impacts their lives," she explained. "One of my favorite areas is demonstrating the mini drop tower so that people get a better understanding of microgravity and the importance of experiments in space."

While NASA's market research shows that the agency has a high overall public image, that same research indicates



C-2008-1251



C-2001-1302

Photos by NASA Glenn

many people don't find NASA's work to be relevant to their daily lives. CMRO's outreach program addresses that relevance everyday, and is looking for fellow employees who want to share that exciting message this summer and throughout the year.

Contact Defelice at 216-433-6186 or visit <http://outreach.grc.nasa.gov> to view frequently asked questions about being part of Glenn's dynamic outreach efforts and a calendar of 2010 events.

Join the Crew!

National Cherry Festival
Traverse City, MI July 3-4

Space Port USA

Rochester, NY July 14-18

Duluth Air Show

Duluth, MN July 17-18

Boy Scout Jamboree

Ft. AP Hill, VA July 26-Aug. 4

NASCAR Sprint Cup Series

Brooklyn, MI Aug. 13-15

(visit <http://outreach.grc.nasa.gov>)